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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-03-06** **Date: 06-04-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.
Address	:	Vidyaranyapura Sub division, BBMP, Banglore.
Project Name	:	Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.
Agency	:	Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/252/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-17
Sample ID No	:	2017-04-03-06/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-04-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.15	–
2	Finess by Air permeablity method (m^2/kg, Min)	275.3	225m^2/kg, Min
3	Density (gm/cc)	3.18	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

AEE (VRP) SD

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-04-03-06** **Date: 02-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.
Address	:	Vidyaranyapura Sub division, BBMP, Banglore.
Project Name	:	Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.
Agency	:	Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/252/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-17
Sample ID No	:	2017-04-03-06/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-04-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-03-06** **Date:06-04-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.
Address	:	Vidyaranyapura Sub division, BBMP, Banglore.
Project Name	:	Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.
Agency	:	Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/252/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-04-17
Sample ID No	:	2017-04-03-06/01(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-04-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	379	379	2.5	97.5	90-100
3	20 mm	7859	8238	54.9	45.1	30-70
4	10 mm	2759	10997	73.3	26.7	10-35
5	4.75 mm	3369	14366	95.8	4.2	0-5
6	Pan	634	15000	100.0	0	---

AEE (WRP) SD

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-04-03-06** **Date:06-04-2017**

Sample ID No : 2017-04-03-06/01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.9	
3	Specific Gravity	1.63	_
4	Bulk Density(Loose) (Kg/l)	1.44	_
5	Bulk Density(Compacted) (Kg/l)	1.49	_
6	Water Absorption(%)	0.22	_

Note:

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Prepared by
Harshitha

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Authorized Signatory
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-03-06** **Date: 06-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.

Address : Vidyaranyapura Sub division, BBMP, Banglore.

Project Name : Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.

Agency : Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/252/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-04-17

Sample ID No : 2017-04-03-06/03

Sample Type : Fine aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 03-04-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	41	41	4.1	95.9	90-100	90-100	90-100	95-100
3	2.36 mm	81	122	12.2	87.8	60-95	75-100	85-100	95-100
4	1.18 mm	123	245	24.5	75.5	30-70	55-90	75-100	90-100
5	600 micron	168	413	41.3	58.7	15-34	35-59	60-79	80-100
6	300 micron	425	838	83.8	16.2	5-20	8-30	12-40	15-50
7	150 micron	101	939	93.9	6.1	0-10	0-10	0-10	0-15
8	Pan	61	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-04-03-06** **Date: 06-04-17**

Sample ID No : 2017-04-03-06/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.16	_
2	Specific Gravity	2.5	_
3	Material finer than 75 micron(%)	5.4	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Prepared by
Harshitha

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-04-03-06** **Date:06-04-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.
Address	:	Vidyaranyapura Sub division, BBMP, Banglore.
Project Name	:	Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.
Agency	:	Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/252/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-17
Sample ID No	:	2017-04-03-06/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-04-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	248	248	5.0	95.0	90-100
3	10 mm	2738	2986	59.7	40.3	25-55
4	4.75 mm	1648	4634	92.7	7.3	0-10
5	Pan	366	5000	100	0	–

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Lab ID : **CP-2017-04-03-06** **Date:06-04-2017**

Sample ID No : 2017-04-03-06/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.2**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.3**	
3	Specific Gravity	**1.59**	_
4	Bulk Density(Loose) (Kg/l)	**1.44**	_
5	Bulk Density(Compacted) (Kg/l)	**1.48**	_
6	Water Absorption(%)	**0.28**	_
7	Aggregate crushing Value(%)	**22.4**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**23.2**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Prepared by
Harshitha

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Quality Manager

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-04-03-06** **Date: 06-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.
Address	:	Vidyaranyapura Sub division, BBMP, Banglore.
Project Name	:	Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.
Agency	:	Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/252/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-04-17
Sample ID No	:	2017-04-03-06/04
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	03-04-17

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	201	202	16363	34.280	2095.0	2114.4	Not less than 1800Kg/m^3
2	401	202	203	16443	35.890	2182.6		
3	402	200	201	16160	33.380	2065.5		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	35.450	34.120	3.90	3.94	Shall not be more than 10% by mass
2	34.340	33.320	3.06		
3	35.386	33.750	4.85		

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Lab ID : **CP-2017-04-03-06**

Sample ID No : **2017-04-03-06/04**

Date: 06-04-17

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	201	201	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	202	202	
3	401	200	203	
4	403	203	200	
5	400	201	203	
6	403	202	202	
7	403	201	201	
8	404	202	202	
9	402	203	203	
10	401	201	201	
11	403	203	203	
12	402	201	201	
13	401	202	202	
14	402	203	202	
15	401	202	201	
16	400	202	203	
17	403	201	200	
18	402	200	201	
19	402	202	202	
20	403	202	203	
Average of 20 blocks	**402**	**202**	**202**	

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Lab ID : **CP-2017-04-03-06** **Date: 06-04-17**

Sample ID No : 2017-04-03-06/04

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	201	80400	379.5	4.7	4.6
2	403	202	81406	376.4	4.6	
3	401	200	80200	354.7	4.4	
4	403	203	81809	388.4	4.7	
5	400	201	80400	389.4	4.8	
6	403	202	81406	377.9	4.6	
7	403	201	81003	376.1	4.6	
8	404	202	81608	361.5	4.4	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-04-03-06** **Date: 06-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.
Address	:	Vidyaranyapura Sub division, BBMP, Banglore.
Agency	:	Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.
Project Name	:	Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.
Customer's Reference	:	BBMP/EE/BTP/WO/252/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-17
Sample ID No	:	2017-04-04-06/01
Sample Type	:	Indus TMT Fe500
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	05-04-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus TMT Fe500	Fe500	8mm	0.392	530	624	19.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus TMT Fe500	Fe500	8mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-04-04-06** **Date: 06-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.
Address	:	Vidyaranyapura Sub division, BBMP, Banglore.
Project Name	:	Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.
Agency	:	Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/252/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-04-17
Sample ID No	:	2017-04-04-06/02
Sample Type	:	Indus TMT Fe500
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	05-04-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus TMT Fe500	Fe500	10mm	0.613	536	628	20%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus TMT Fe500	Fe500	10mm	Satisfactory	Satisfactory

Note:
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Prepared By:
Harshitha

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Authorized Signature
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-04-03-06**	**Date: 06-04-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.	
Address	:	Vidyaranyapura Sub division, BBMP, Banglore.	
Project Name	:	Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.	
Agency	:	Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.	
Customer's Reference	:	BBMP/EE/BTP/WO/252/2016-17	
Source of Sample	:	Sample supplied by the Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	04-04-17	
Sample ID No	:	2017-04-04-06/03	
Sample Type	:	Indus TMT Fe500	
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.	
Date of test:	:	05-04-17	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus TMT Fe500	Fe500	12mm	0.885	543	662	20%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus TMT Fe500	Fe500	12mm	Satisfactory	Satisfactory

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FOR CIVIL Pro.

Prepared By:
Harshitha

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-15-03** **Date: 19-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.

Address : Vidyaranyapura Sub division, BBMP, Banglore.

Project Name : Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.

Agency : Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/252/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-04-17

Sample ID No : 2017-04-15-03/01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	12/04/2017	19/04/2017	150.20 X 150.12 X 150.13	22548	8.340	396.8	17.6	17.7
2	Drain Concrete	M20	12/04/2017	19/04/2017	150.11 X 150.29 X 150.24	22560	8.355	392.5	17.4	
3	Drain Concrete	M20	12/04/2017	19/04/2017	150.22 X 150.28 X 150.26	22575	8.290	408.6	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-15-03** **Date: 10-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.

Address : Vidyaranyapura Sub division, BBMP, Banglore.

Project Name : Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.

Agency : Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/252/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-04-17

Sample ID No : 2017-04-15-03/02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	12/04/2017	10/05/2017	150.10 X 150.22 X 150.18	22548	8.390	536.6	23.8	23.6
2	Drain Concrete	M20	12/04/2017	10/05/2017	150.22 X 150.29 X 150.19	22577	8.430	532.8	23.6	
3	Drain Concrete	M20	12/04/2017	10/05/2017	150.22 X 150.28 X 150.21	22575	8.320	526.0	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-15-03** **Date: 20-04-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.

Address : Vidyaranyapura Sub division, BBMP, Banglore.

Project Name : Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.

Agency : Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/252/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-04-17

Sample ID No : 2017-04-15-03/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	13/04/2017	20/04/2017	149.22 X 150.54 X 149.22	22464	8.165	388.6	17.3	17.2
2	Drain Concrete	M20	13/04/2017	20/04/2017	150.65 X 150.34 X 151.32	22649	8.152	403.1	17.8	
3	Drain Concrete	M20	13/04/2017	20/04/2017	151.88 X 150.15 X 150.11	22805	8.154	376.3	16.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-15-03** **Date: 11-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.

Address : Vidyaranyapura Sub division, BBMP, Banglore.

Project Name : Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.

Agency : Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/252/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-04-17

Sample ID No : 2017-04-15-03/03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Concrete	M20	13/04/2017	11/05/2017	151.43 X 150.41 X 150.87	22777	8.176	539.8	23.7	23.8
2	Drain Concrete	M20	13/04/2017	11/05/2017	151.66 X 150.26 X 150.42	22788	8.114	549.2	24.1	
3	Drain Concrete	M20	13/04/2017	11/05/2017	150.26 X 150.18 X 150.27	22566	8.154	532.6	23.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-18-03** **Date: 22-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.

Address : Vidyaranyapura Sub division, BBMP, Banglore.

Project Name : Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.

Agency : Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/252/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-04-17

Sample ID No : 2017-04-18-03/01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/04/2017	22/04/2017	148.98 X 151.67 X 150.55	22596	8.132	277.9	12.3	12.4
2	PCC	M15	15/04/2017	22/04/2017	149.91 X 150.11 X 150.22	22503	8.105	272.3	12.1	
3	PCC	M15	15/04/2017	22/04/2017	150.54 X 150.65 X 150.18	22679	8.172	288.0	12.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-18-03** **Date: 13-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Banglore.

Address : Vidyaranyapura Sub division, BBMP, Banglore.

Project Name : Improvements to roads, drains and Construction of culverts at Ashraya layout cross roads in Ward no.11 (Kuvempunagara) Vidyaranyapura Sub-division.

Agency : Sri.Sharath.S, #7, 2nd Block, Gugganahalli, Rajajinagara, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/252/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-04-17

Sample ID No : 2017-04-18-03/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/04/2017	13/05/2017	151.21 X 150.11 X 150.34	22698	8.122	422.2	18.6	18.3
2	PCC	M15	15/04/2017	13/05/2017	150.26 X 150.32 X 150.11	22587	8.197	415.6	18.4	
3	PCC	M15	15/04/2017	13/05/2017	150.54 X 149.11 X 151.76	22447	8.123	401.8	17.9	

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